COURSE OUTLINE

1. GENERAL

SCHOOL	HUMANITIES AND SOCIAL SCIENCES
ACADEMIC UNIT	DEPARTMENT OF HISTORY AND ARCAEOLOGY
LEVEL OF STUDIES	POSTGRADUATE

COURSE CODE	**HAC103**	**SEMESTER**	1st

COURSE TITLE	Digital Methods in the History and Archaeology of cities

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures	2	10
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	General background - Skills development
PREREQUISITE COURSES:	None
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek and/or English
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)
COURSE WEBSITE (URL)	

2. LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

− *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*

− *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning*

and Appendix B

− *Guidelines for writing Learning Outcomes*

The subject of the course is the presentation and critical analysis of current digital approaches for the long-term study of the cultural heritage of cities. In recent years, digital technology has had a crucial impact in History and Archeology through novel approaches targeting new ways of valorising, promoting and mediating cultural heritage. A multitude of constantly evolving digital approaches (Geographic Information Systems, Virtual and Augmented Reality, Digital Storytelling, Digital Cultural Routes, Crowdsourcing, etc.) have changed the collection, organization, analysis and communication practices of

the urban heritage bridging the fragmentation of available materials remains and related archival evidence. The course examines the interdisciplinary nature of research into the urban past with an emphasis on the standing monuments, the archaeological remains and the historical sources that can be combined for the holistic management and creative use of the urban cultural resources. This overview of the different digital approaches employs relevant application examples, from Greece and abroad, contextualising in each case the data augmentation processes and the validity or authenticity of the produced representations of the urban past. At the same time, the study of urban cultural heritage is linked to modern urban transformation issues, such as urban sprawl, urban gentrification, touristification and smart cities.

Upon successful completion of the course, the student is able to:

- recognize the importance of interdisciplinarity in the study of the phenomenon of cities.

- associate urban heritage research methodologies with the relevant digital tools.

- know established and alternative strategies for the digitization and promotion of cultural heritage.

- understand the role of cultural resources in the framework of the contemporary urban phenomenon.

- critically evaluate the characteristics of cultural digital products in terms of quality and research usability.

- appreciate the basic literature and examples of relevant digital applications.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	*Project planning and management*
	Respect for difference and multiculturalism
Adapting to new situations	*Respect for the natural environment*
Decision-making	*Showing social, professional and ethical responsibility and sensitivity to gender issues*
Working independently	
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*……*
Production of new research ideas	*Others…*
	…….

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Adapting to new situations
- Decision-making
- Independent/team work
- Working in an international and interdisciplinary environment
- Respect for difference and multiculturalism
- Project planning and management
- Showing social, professional and ethical responsibility and sensitivity to gender issues
- Criticism and self-criticism
- Production of free, creative and inductive thinking

3. SYLLABUS

The course provides an introduction of the digital approaches to urban heritage.
- Introduction. Subject matter & course structure

- Urban palimpsest and urban cultural resources
- Urban Archaeology, management and promotion
- Digital documentation of monuments
- Visualization of urban landscapes
- Digital cartography and urban transformations
- Deep maps of the city
- Space syntax for urban heritage management
- Augmented cultural content - Digital cultural routes & soundscapes
- Virtual cities: Gamification and urban heritage
- Digital storytelling - Citizen science - Crowdsourced approaches
- City limits and exurban cultural heritage
- Summary

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face to face, Distance learning
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	Use of ICT in teaching (exploration of data sources, video and interactive platforms, use of Web resources) Use of asynchronous e-learning platform for study materials and communication with students

TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS*		
	Activity	*Semester Workload*
	Lectures	26
	Interactive teaching	10
	Web examples	10
	Independent study	74
	Essay writing	90
	Study and analysis of bibliography	40
	Course total (25 hours per credit)	**250**

STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure* *Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	Assessment via essay writing and presentation of topics related to the study theme, alongside the attendance and participation in the lectures.

5. ATTACHED BIBLIOGRAPHY

Baugher, S., Appler, D.R. & Moss, W. (eds) 2017. *Urban Archaeology, Municipal Government and Local Planning*. Springer Cham.

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Cheirchanteri, G. 2021. Recording, Documentation and Sustainable Development in Cultural Heritage Buildings. Athens building maintenance (1830-1940), *SMC magazine*, 14, 111-115.

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Katsianis, M., Lampraki, S., Theocharaki, A.-M., Pigaki, M., Costaki, L., & Papaefthimiou, E. 2019. Reconnecting a Fragmented Monument through Digital Mapping: The City Walls of Athens. *Studies in Digital Heritage*, 2 (2), 177-195.

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Palaiologou, G. & Griffiths, S. 2019. The uses of space syntax historical research for policy development in heritage urbanism. In M.O. Šćitaroci, B.B.O. Šćitaroci, & A. Mrđa, eds. *Cultural Urban Heritage: Development, Learning and Landscape Strategies*. Springer: Cham, Switzerland, 19-34.

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Rau, S. & Schönherr, E. (eds) 2013. *Mapping Spatial Relations, Their Perceptions and Dynamics. The City Today and in the Past*. Springer Cham.

Theocharaki, A.M., Costaki, L., Papaefthimiou, W., Pigaki, M. & Panagiotopoulos, G. 2022. Mapping Ancient Athens: A Digital Map to Rescue Excavations. In: A. Moropoulou et al. (eds) *Trandisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage (TMM_CH 2021)*. Communications in Computer and Information Science, vol 1574. Springer, Cham.